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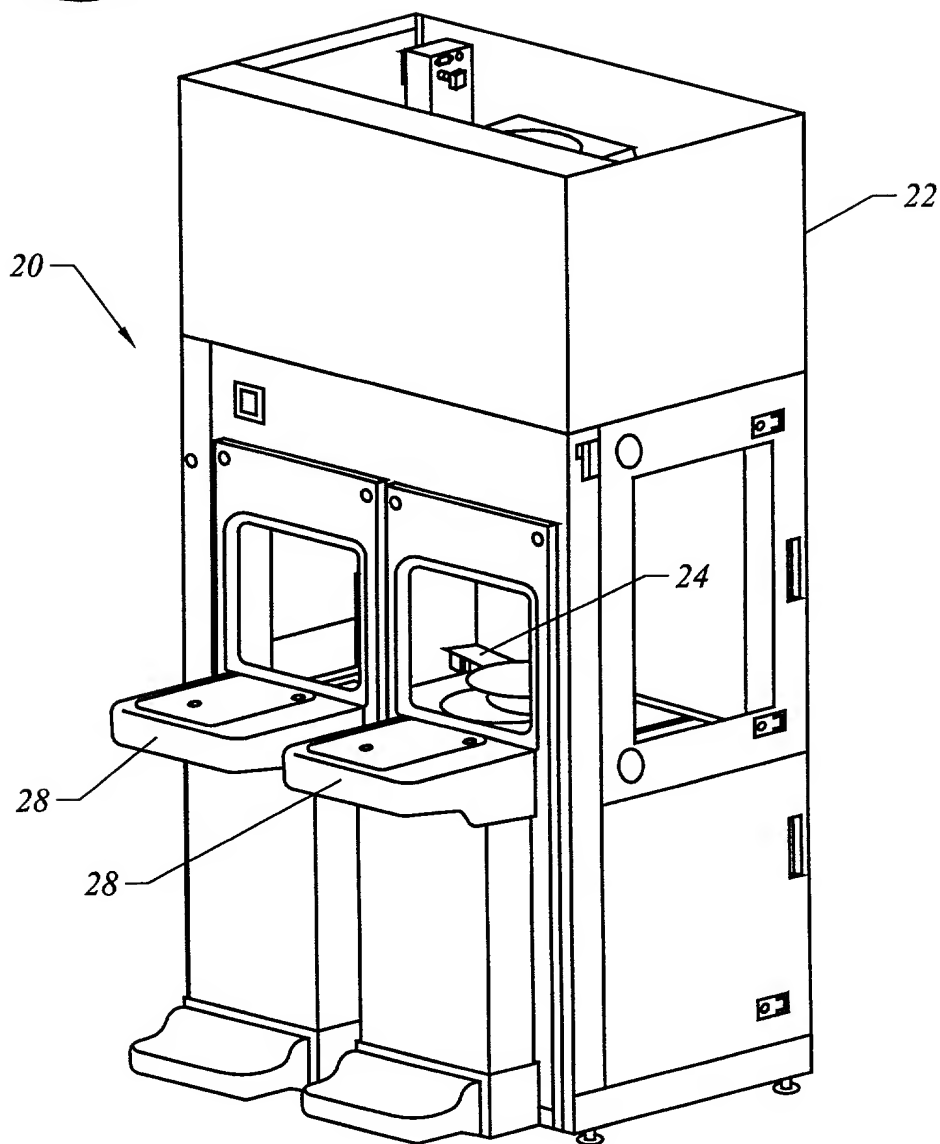


FIG. 1

2002403948001



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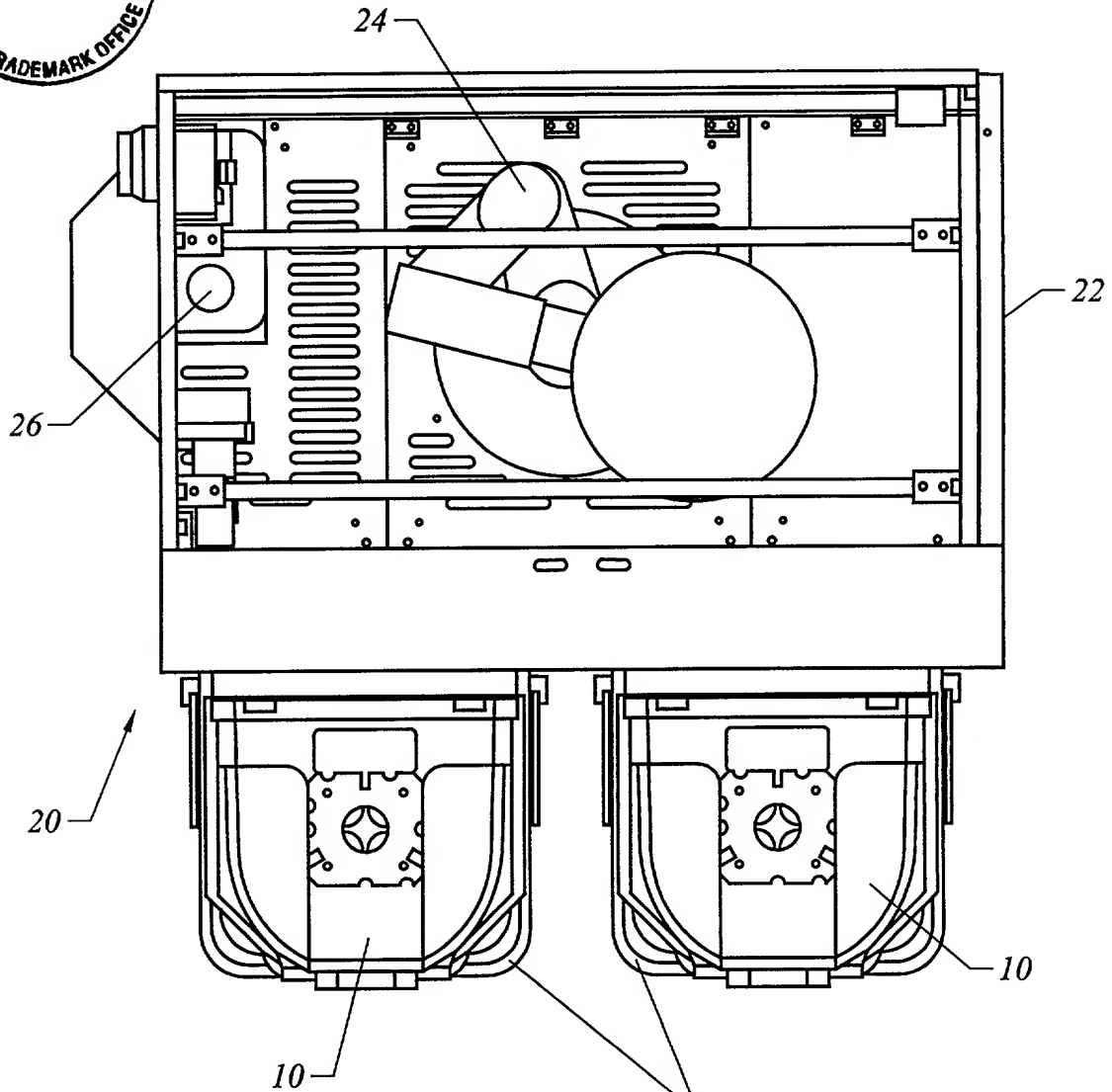


FIG. 2



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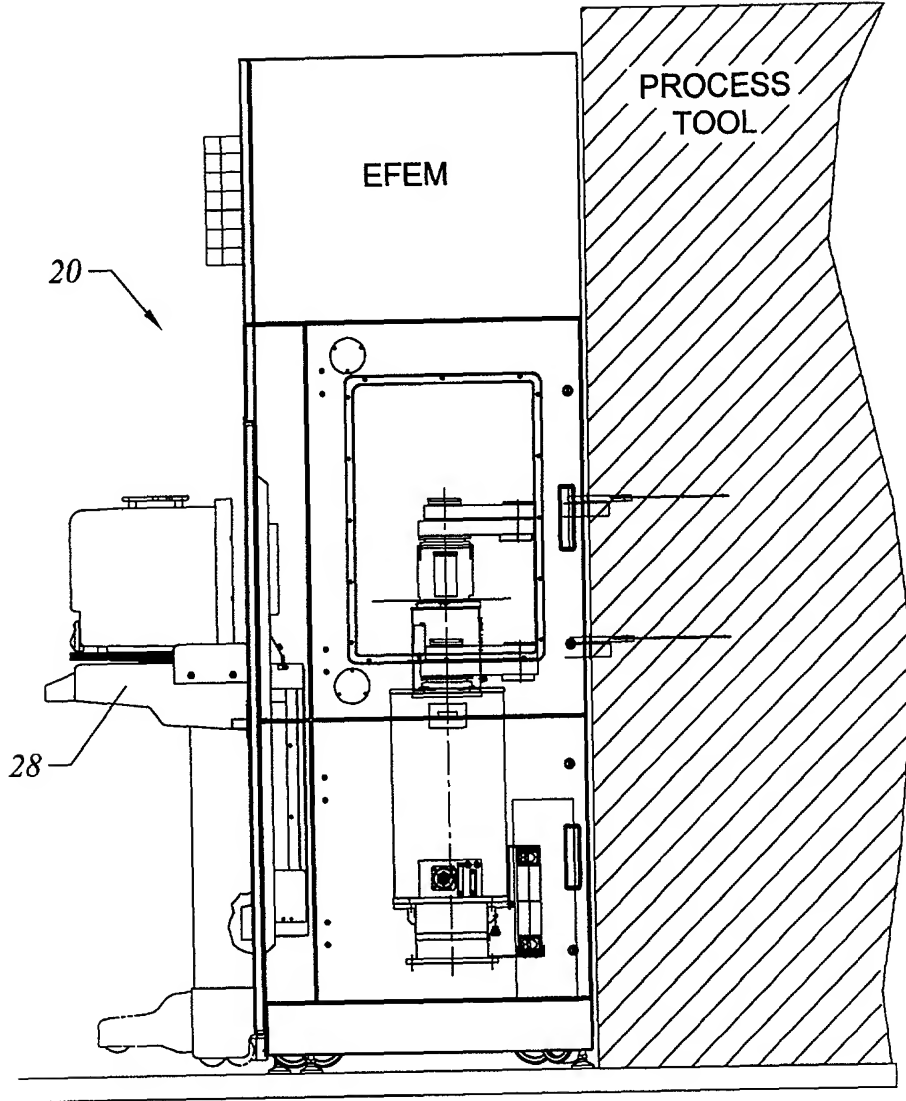


FIG. 3



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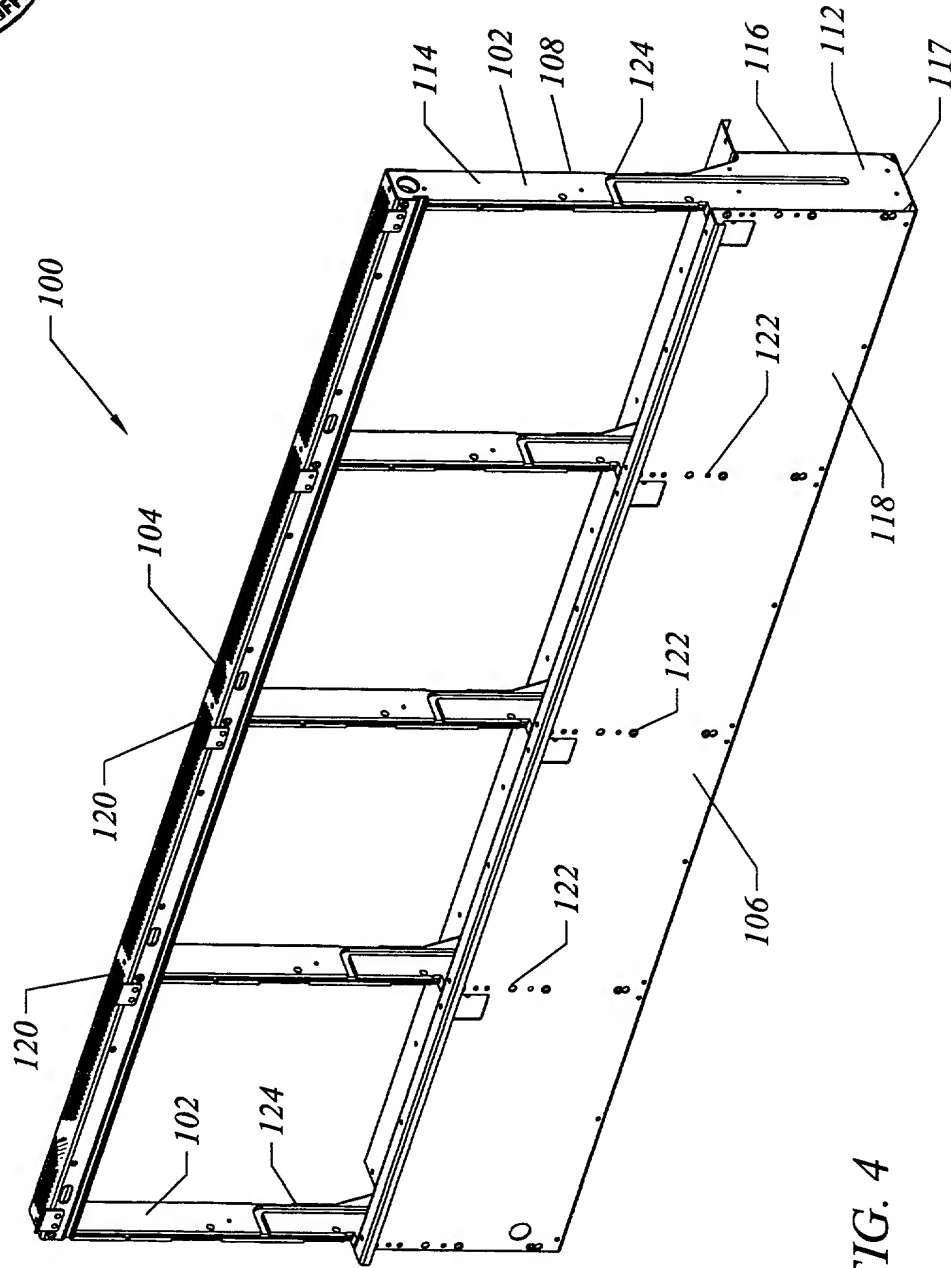


FIG. 4



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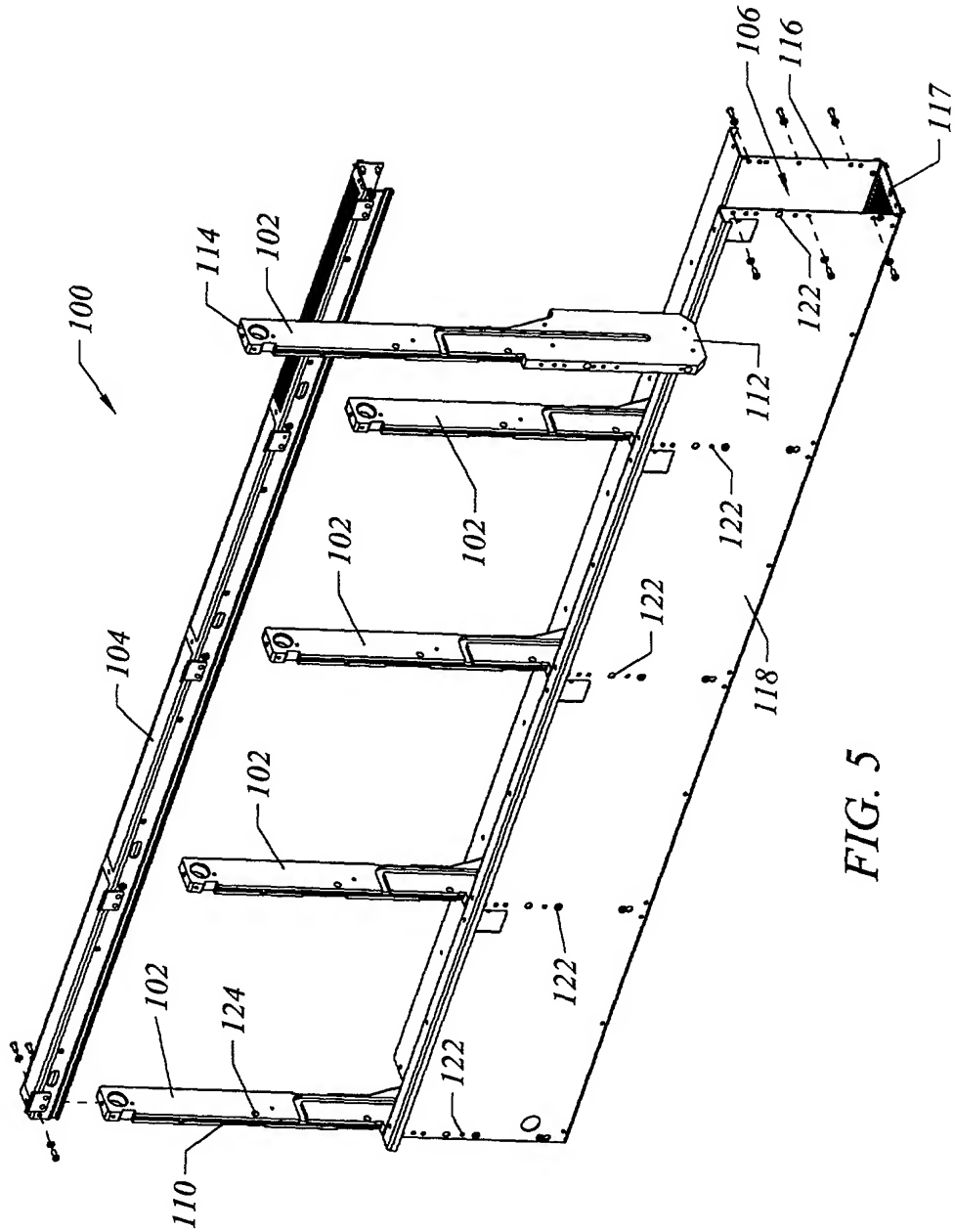


FIG. 5



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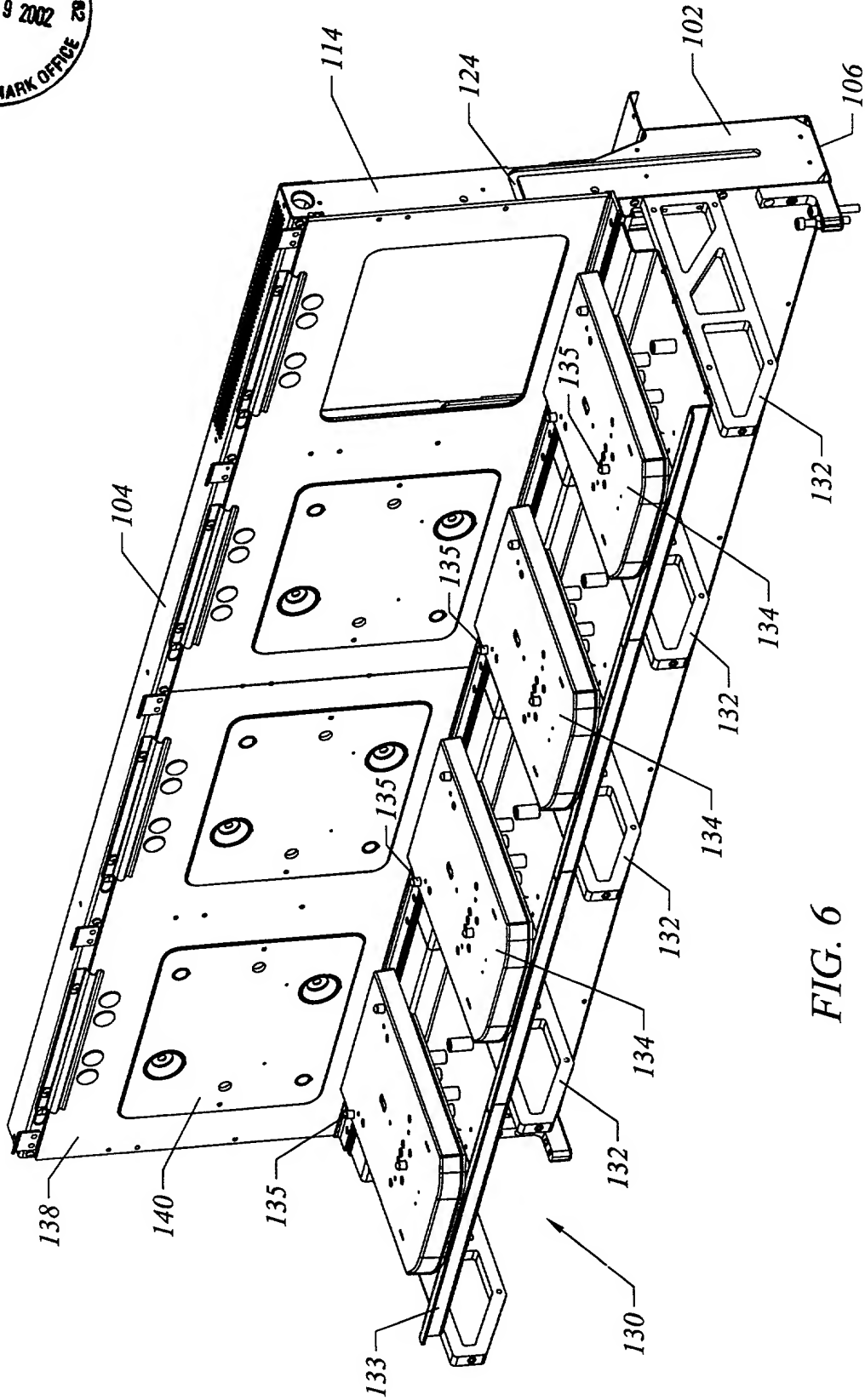


FIG. 6

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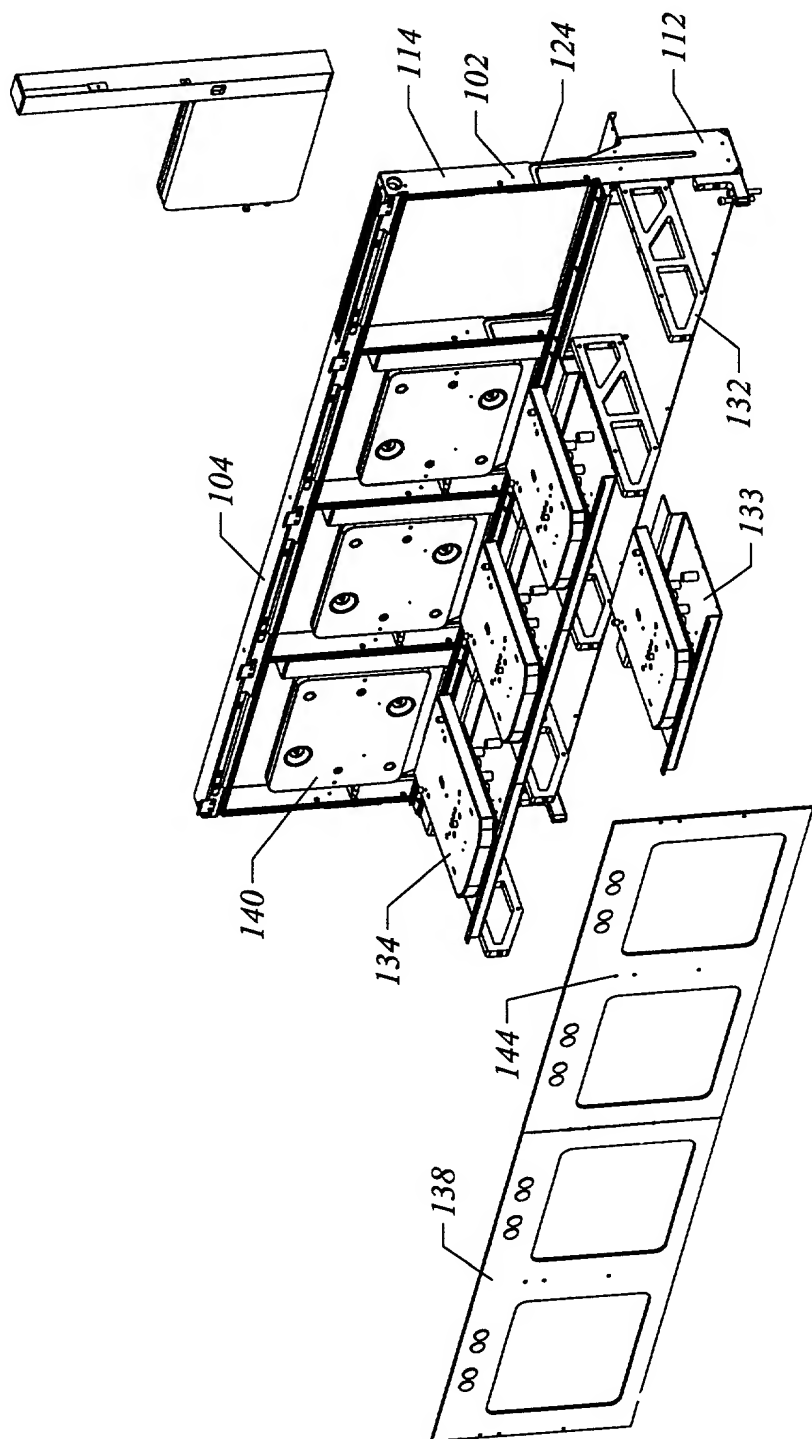


FIG. 7



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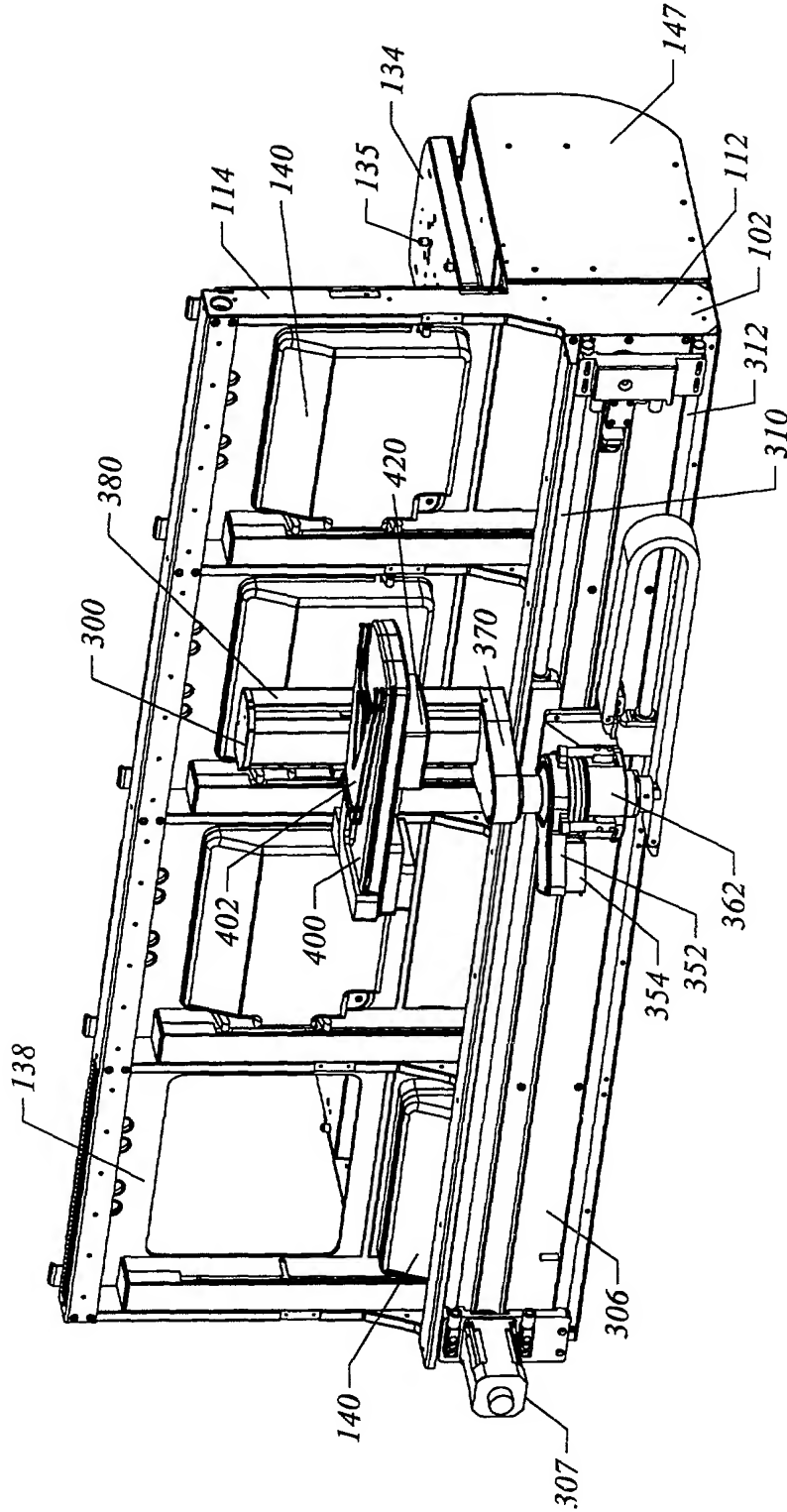


FIG. 8

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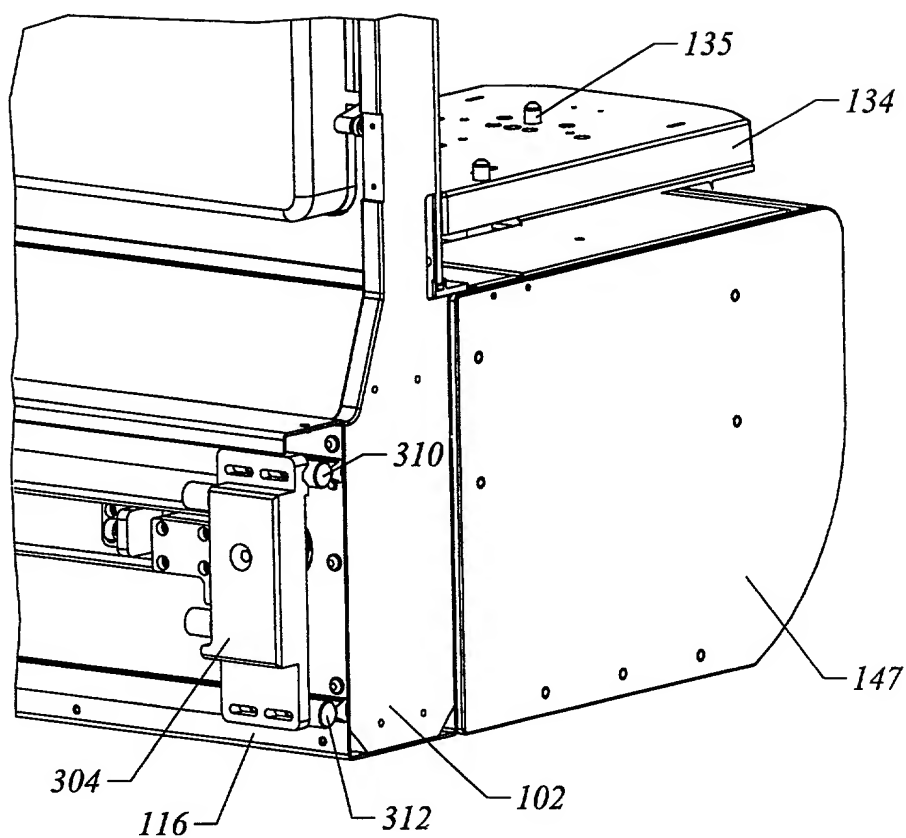


FIG. 9



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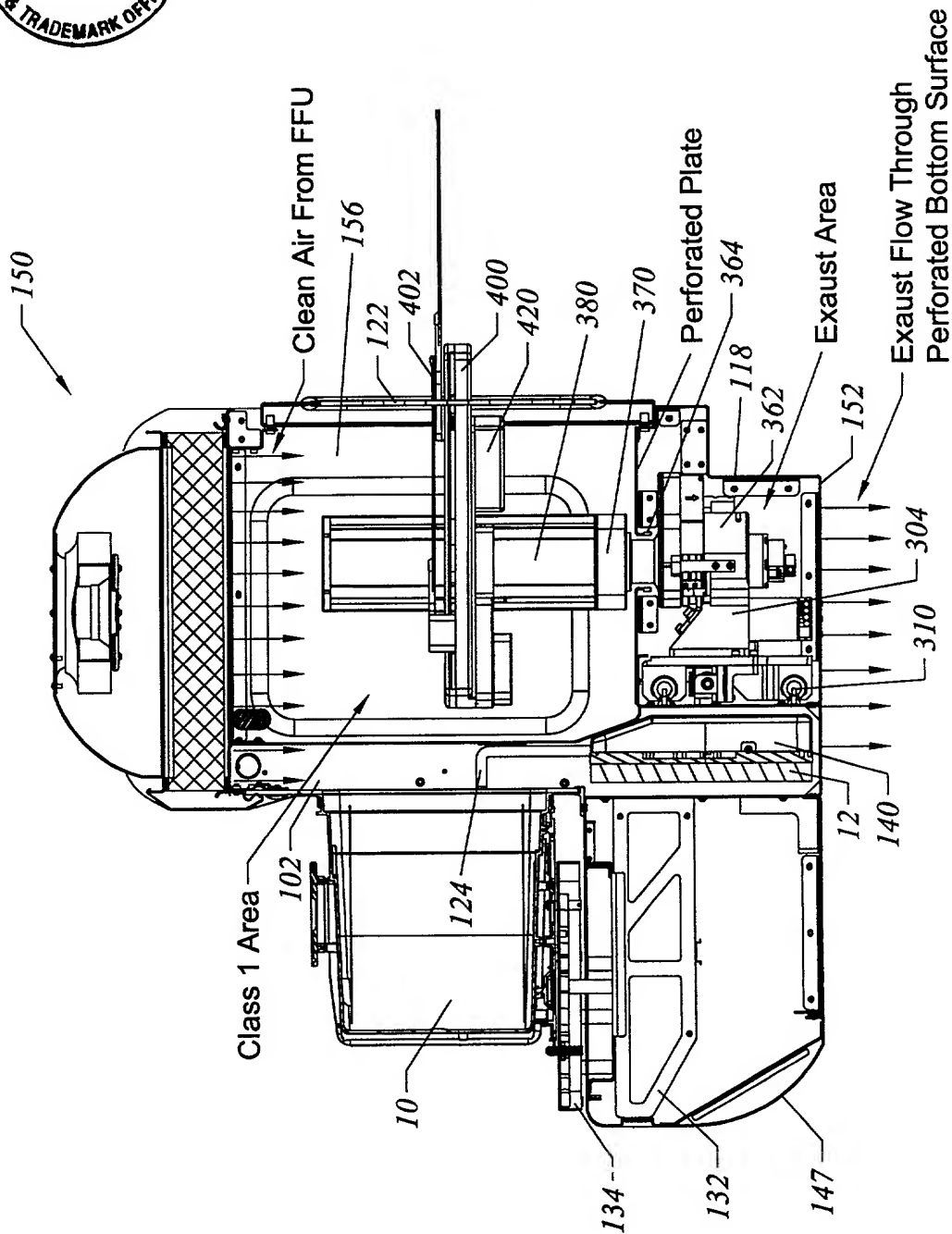


FIG. 10



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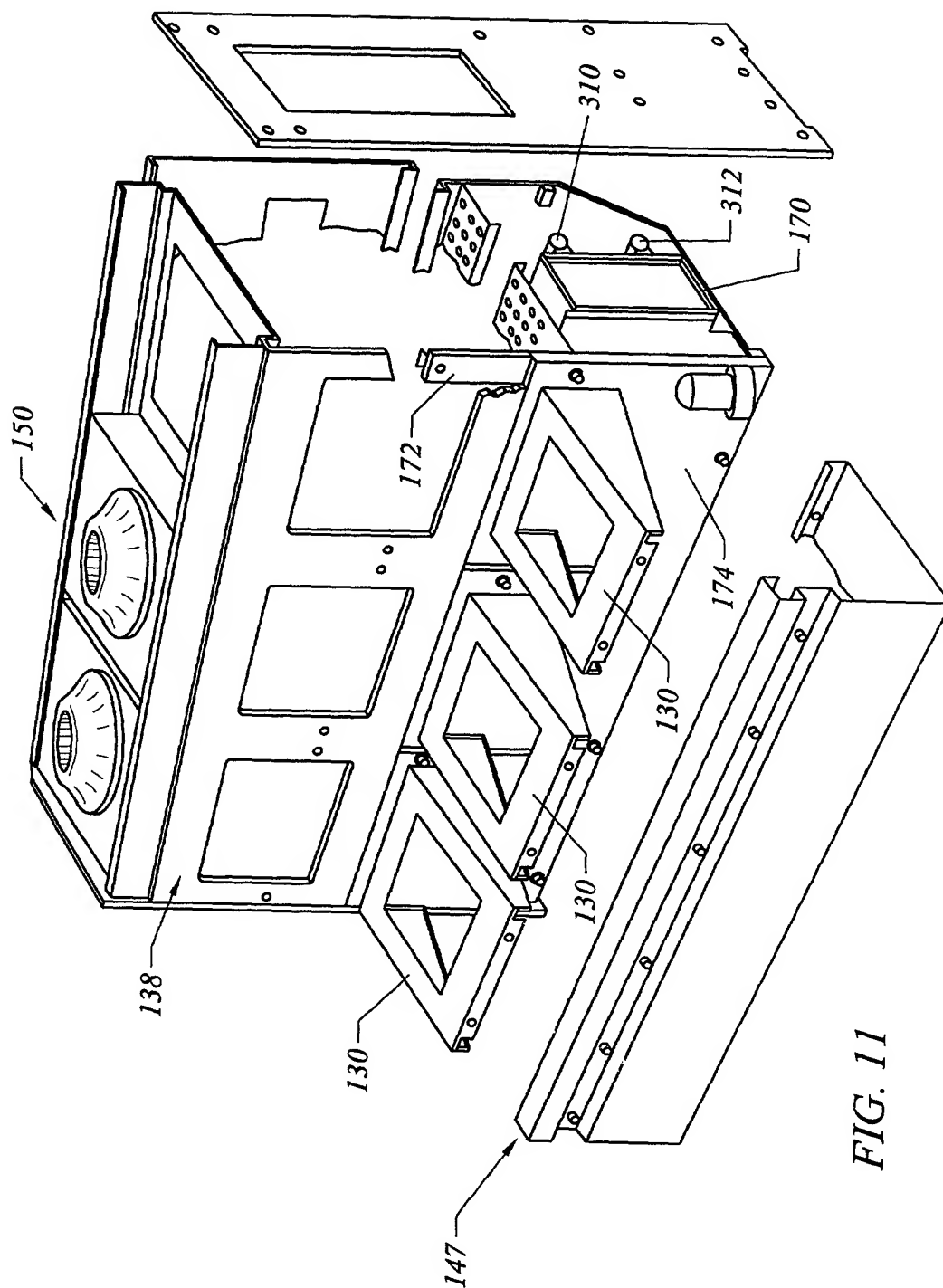


FIG. 11

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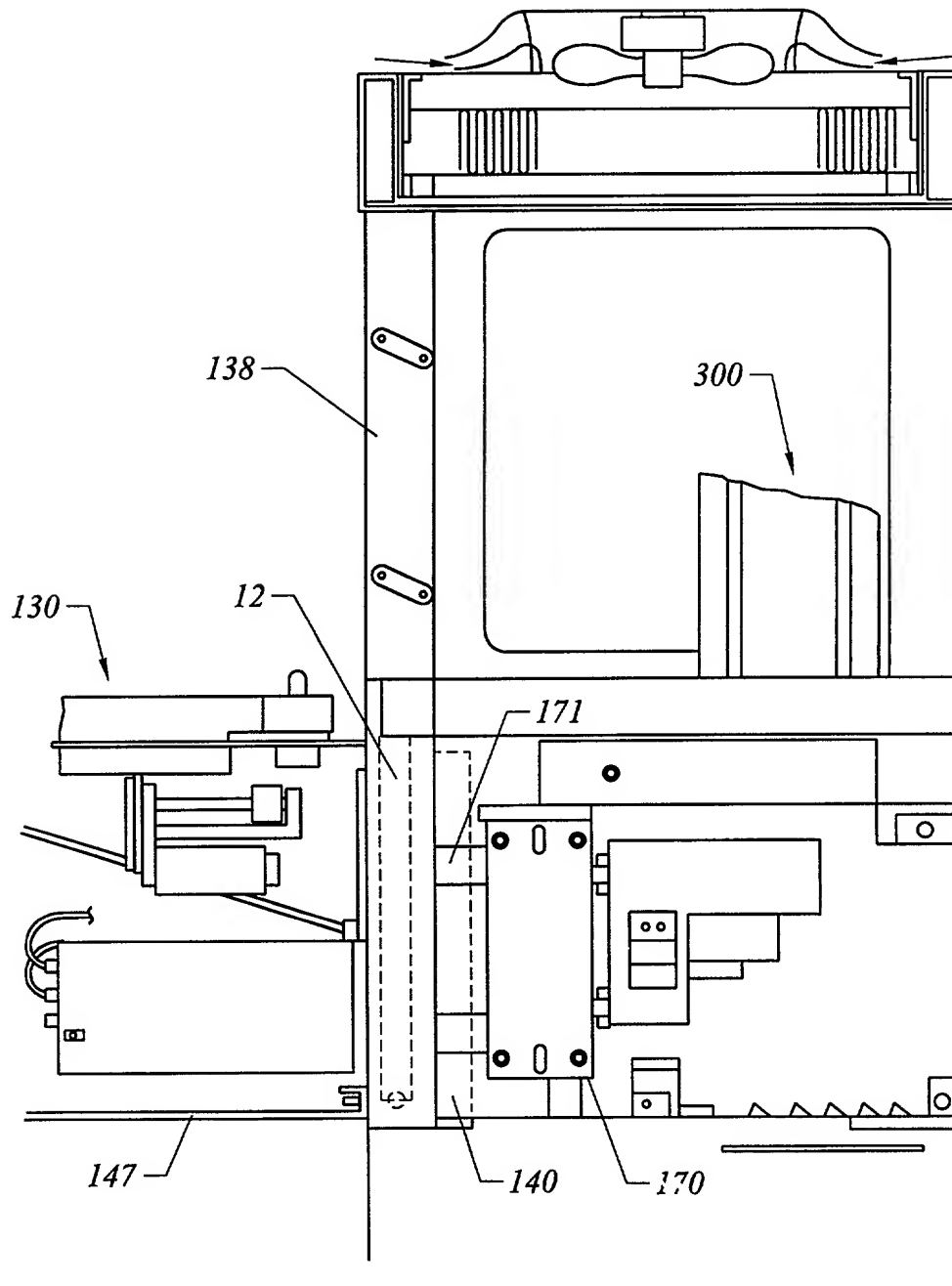
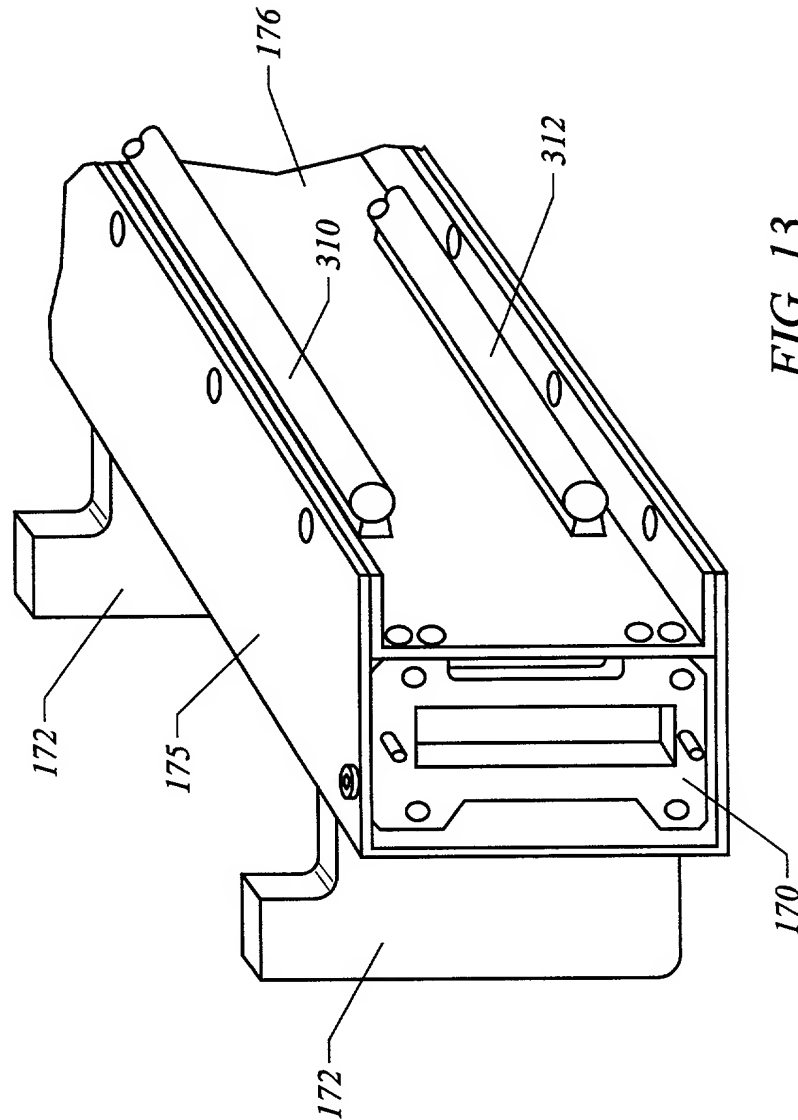


FIG. 12



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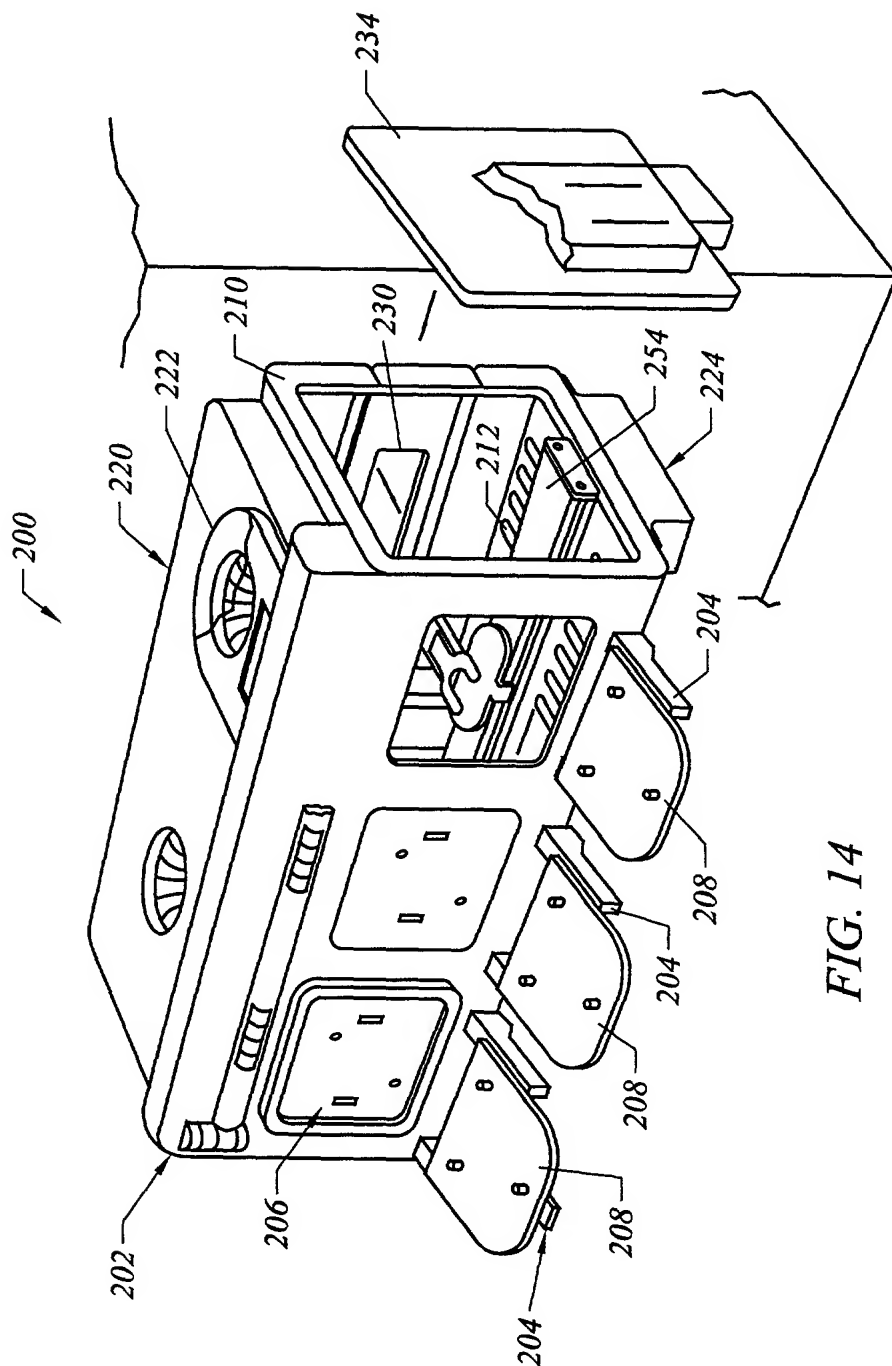


FIG. 14



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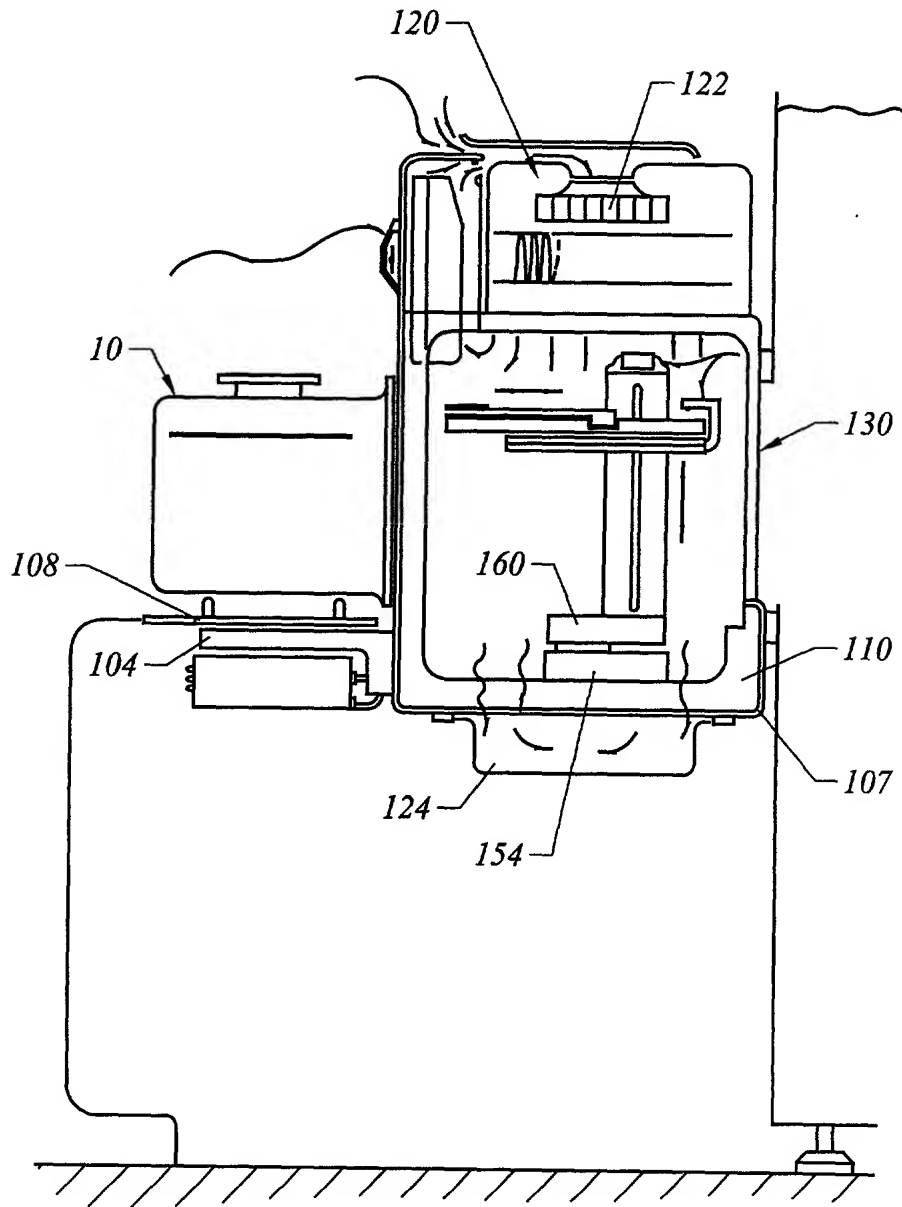


FIG. 15

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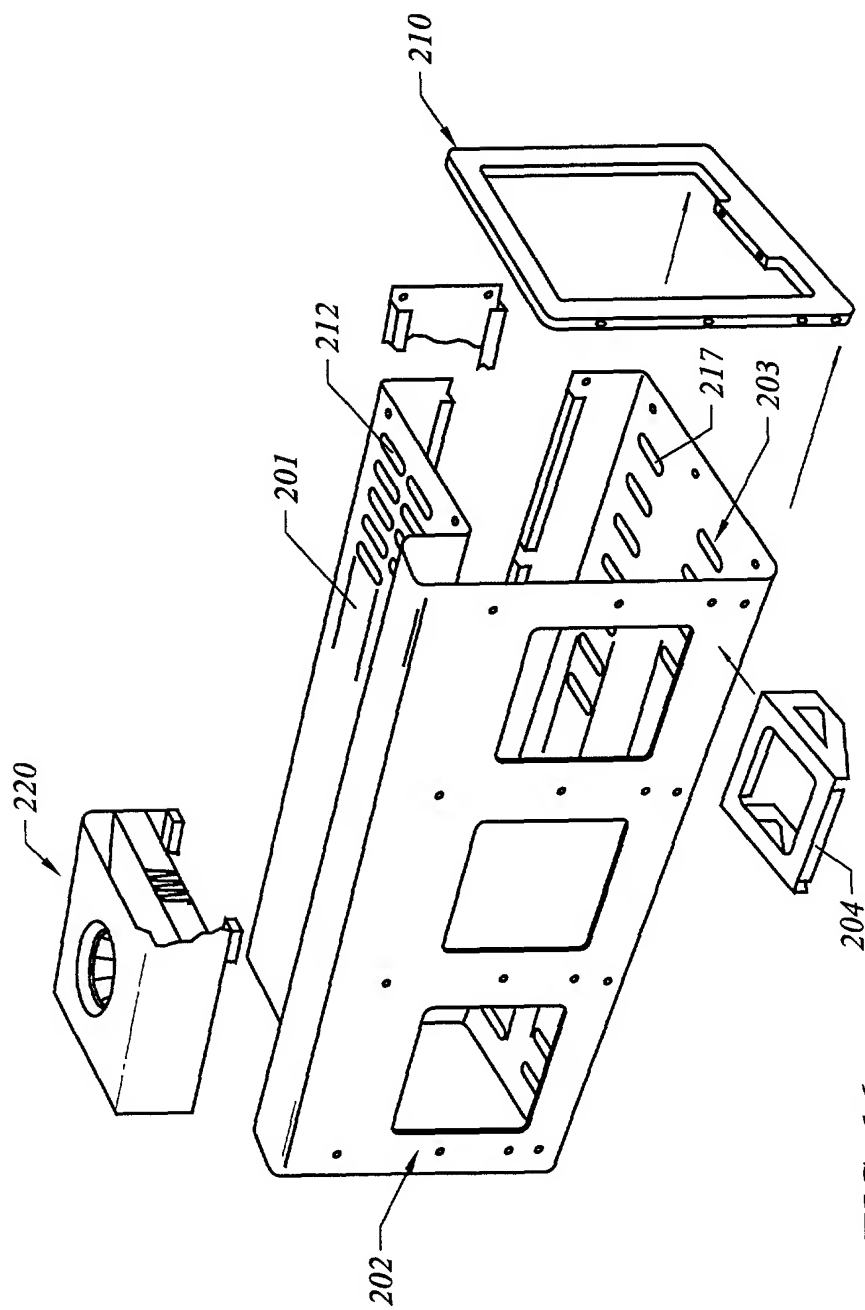


FIG. 16



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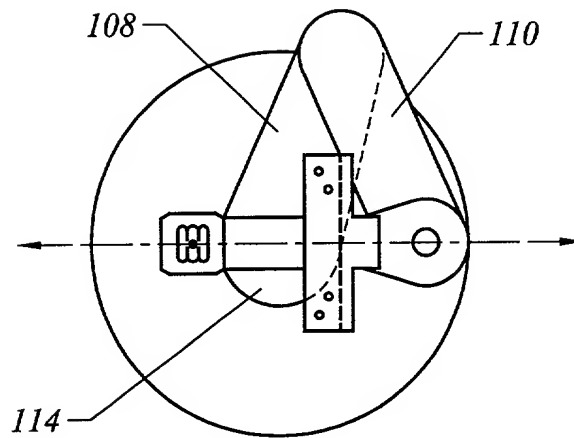


FIG. 17A
(Prior Art)

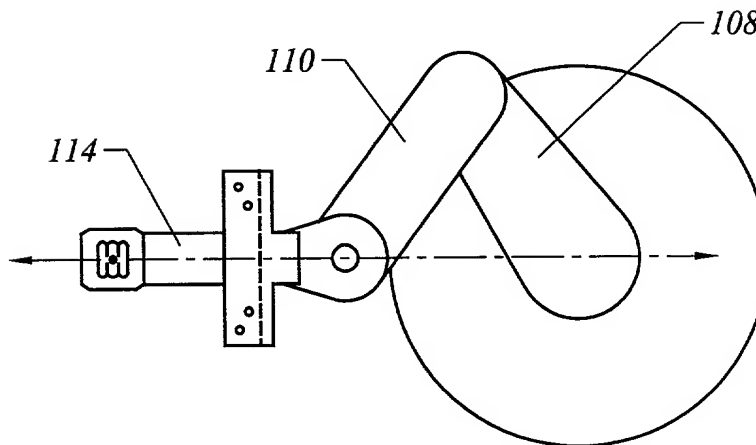
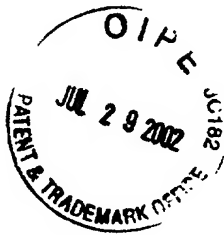


FIG. 17B
(Prior Art)

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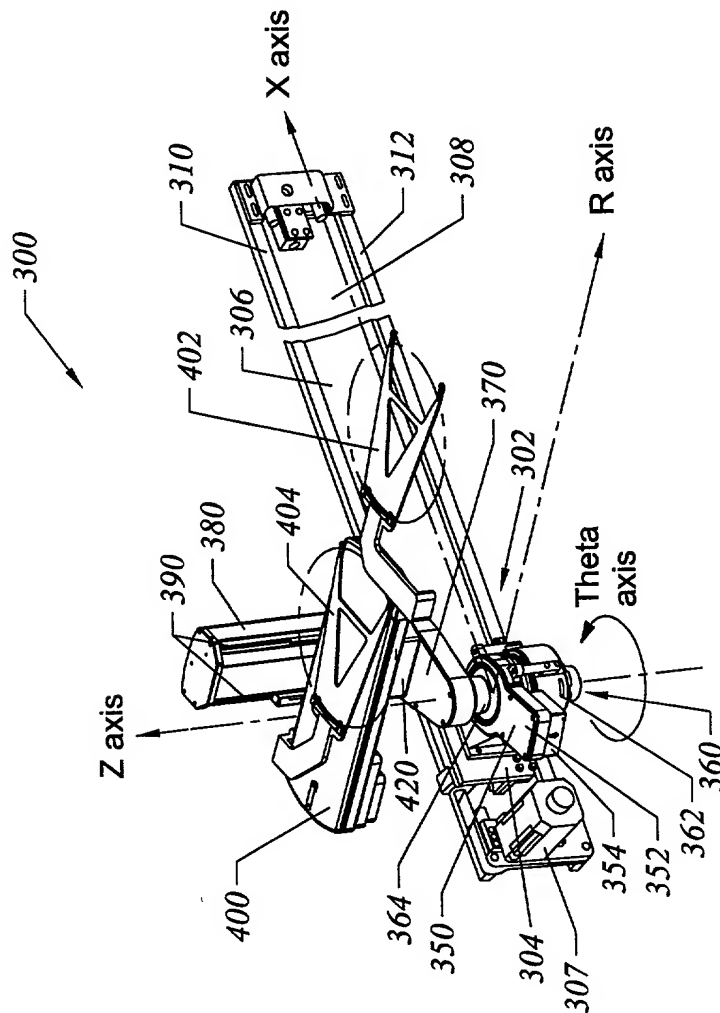


FIG. 18



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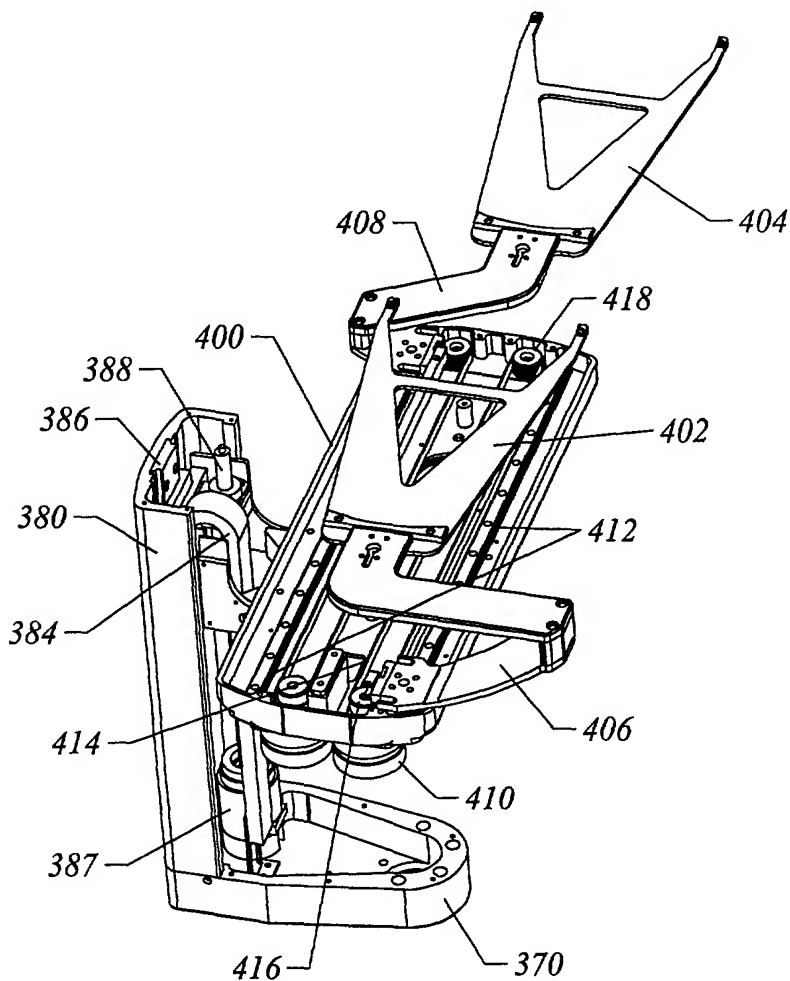


FIG. 19



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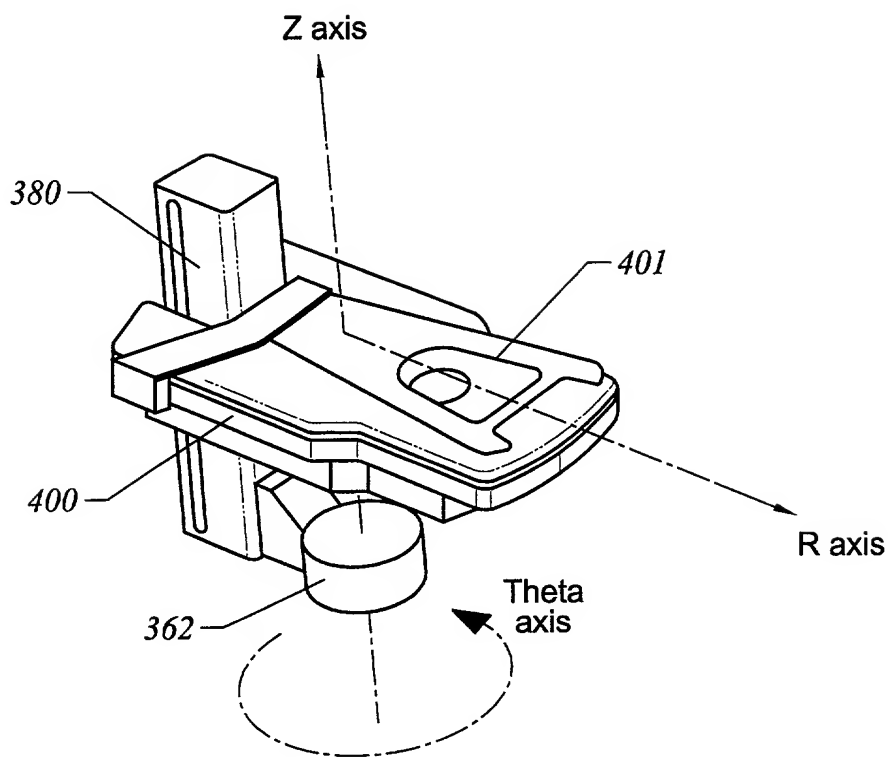


FIG. 20

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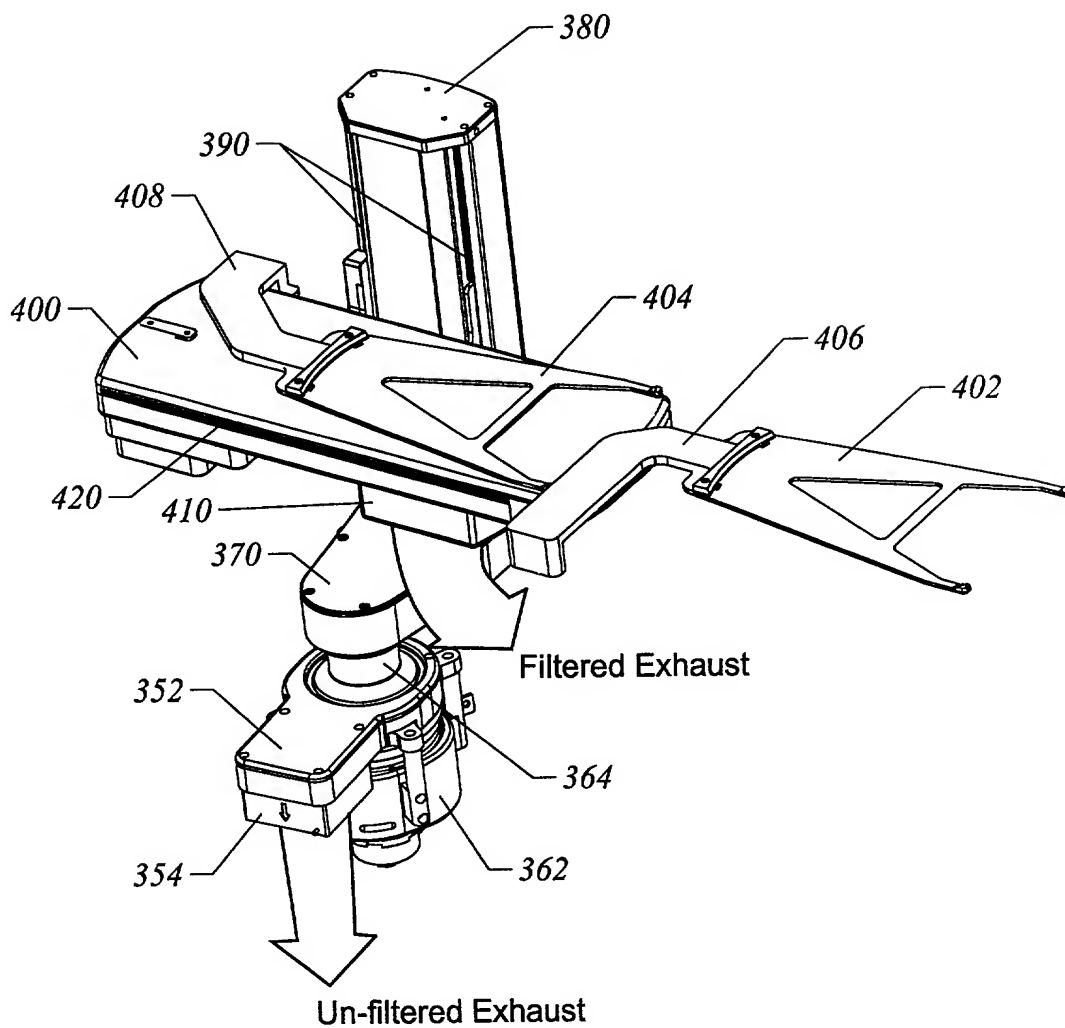


FIG. 21



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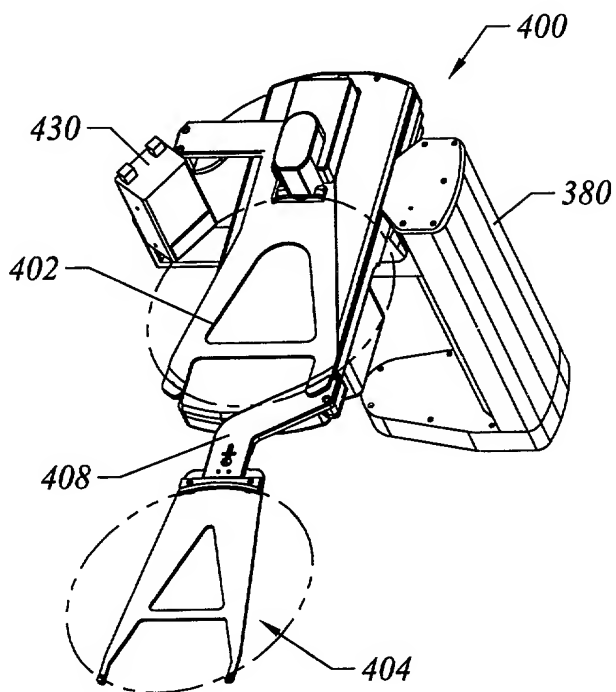


FIG. 22A

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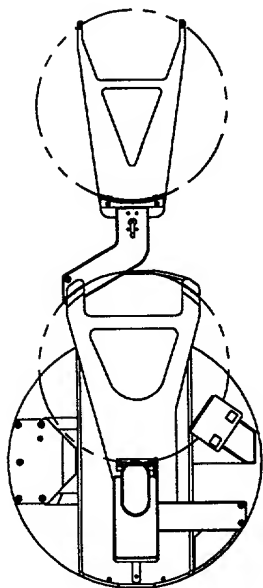


FIG. 22B

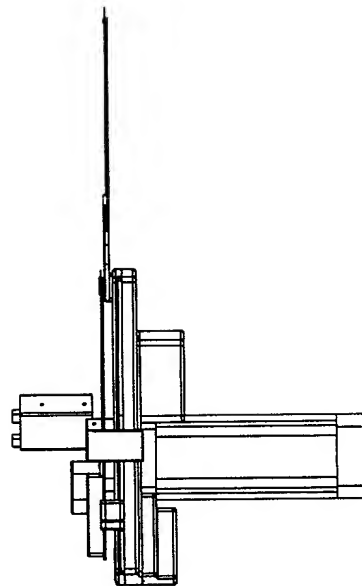


FIG. 22C

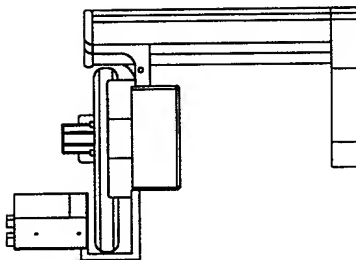


FIG. 22D

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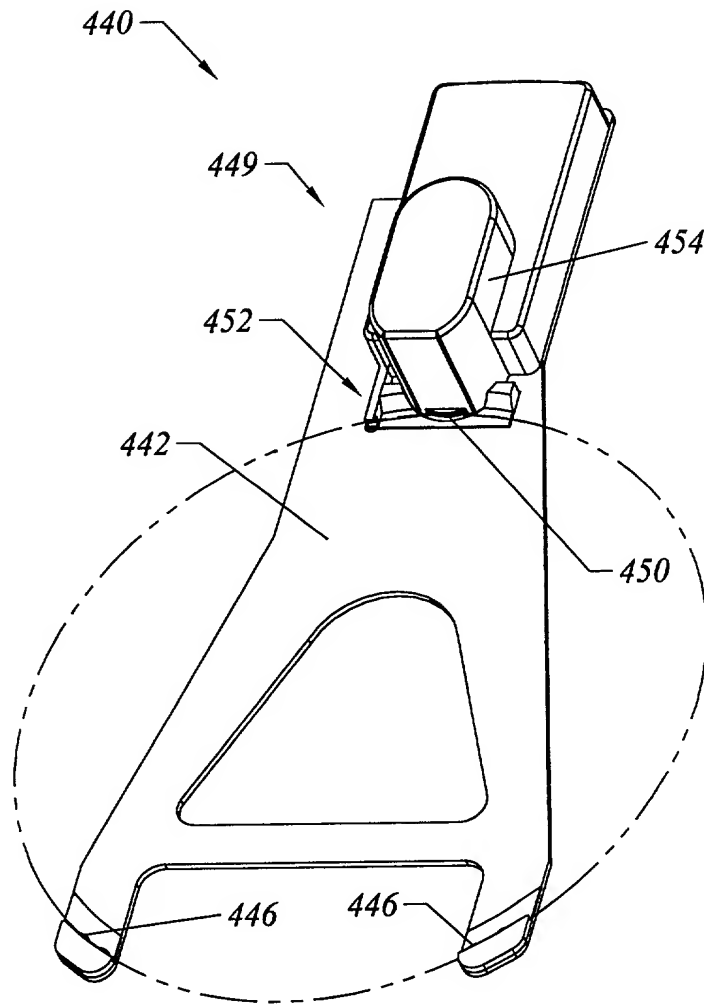


FIG. 23



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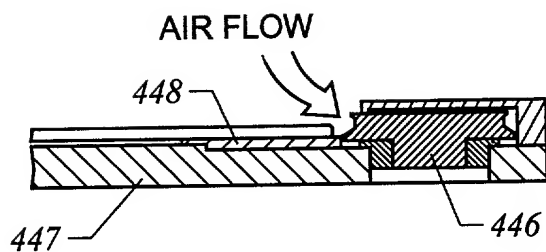


FIG. 24A

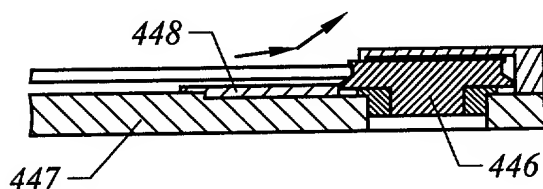


FIG. 24B

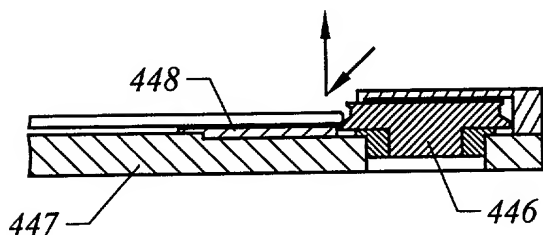


FIG. 24C

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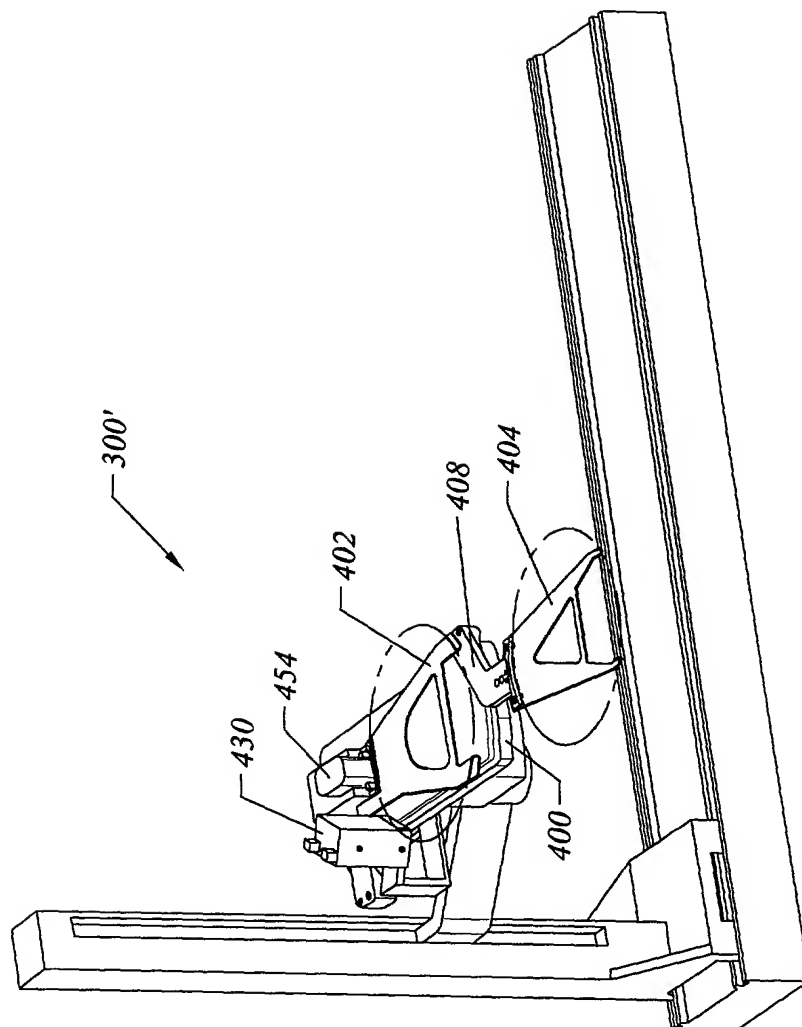


FIG. 25

300' 430 402 408 454 404 400



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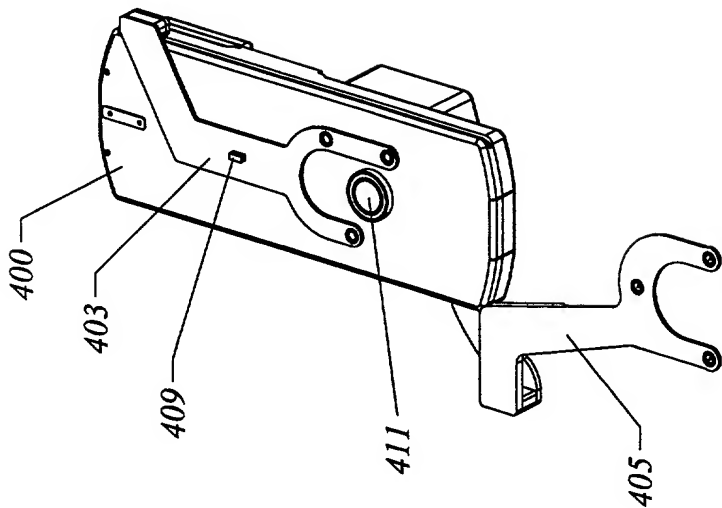


FIG. 26B

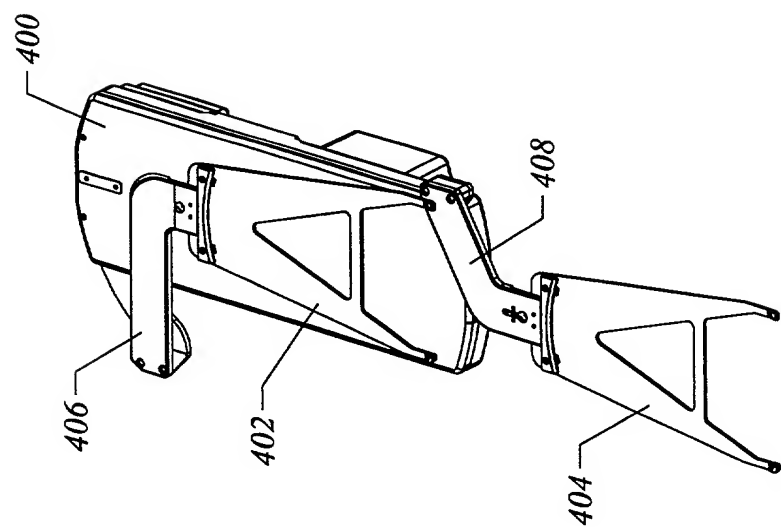


FIG. 26A

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Conventional Linear Slide Robot

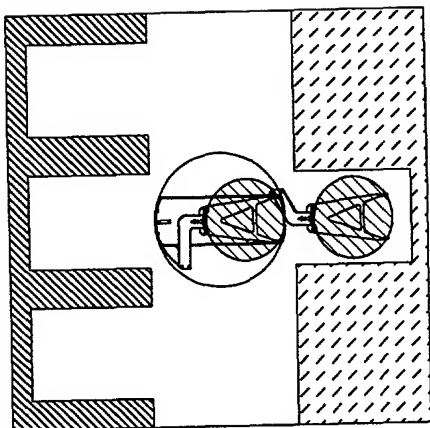
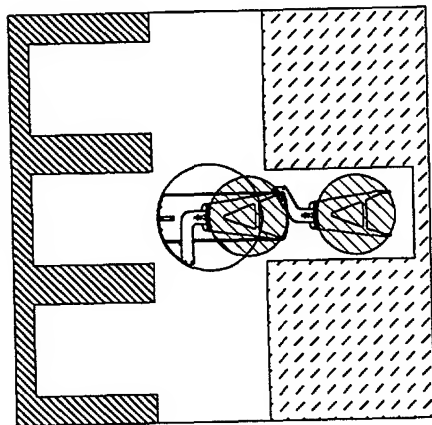


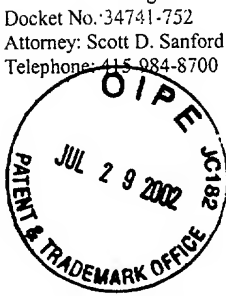
FIG. 27A

Off-Center Side-Body (50mm offset)



EFEM Process Tool

FIG. 27B



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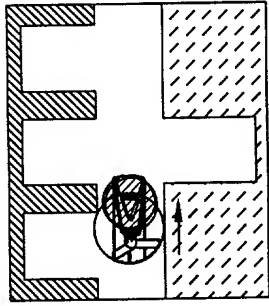


FIG. 28-1

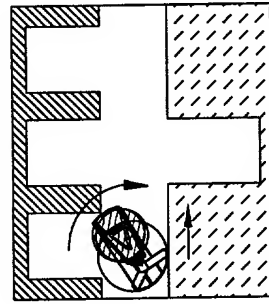


FIG. 28-2

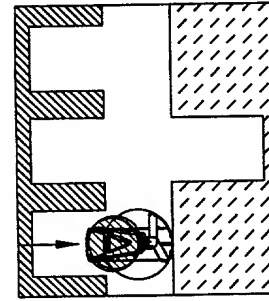


FIG. 28-3

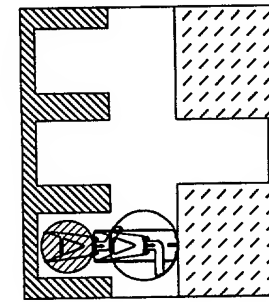


FIG. 28-4

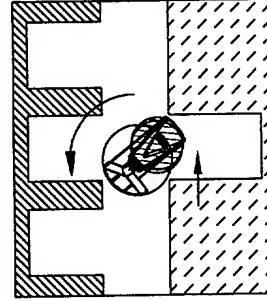


FIG. 28-5

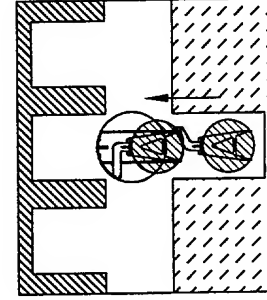


FIG. 28-6

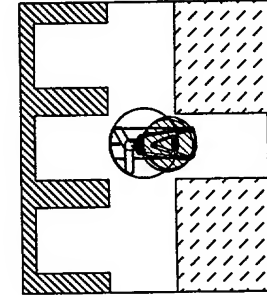


FIG. 28-7

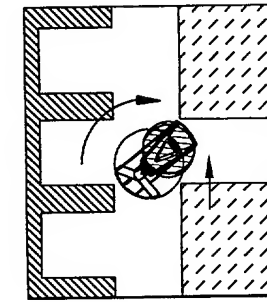


FIG. 28-8





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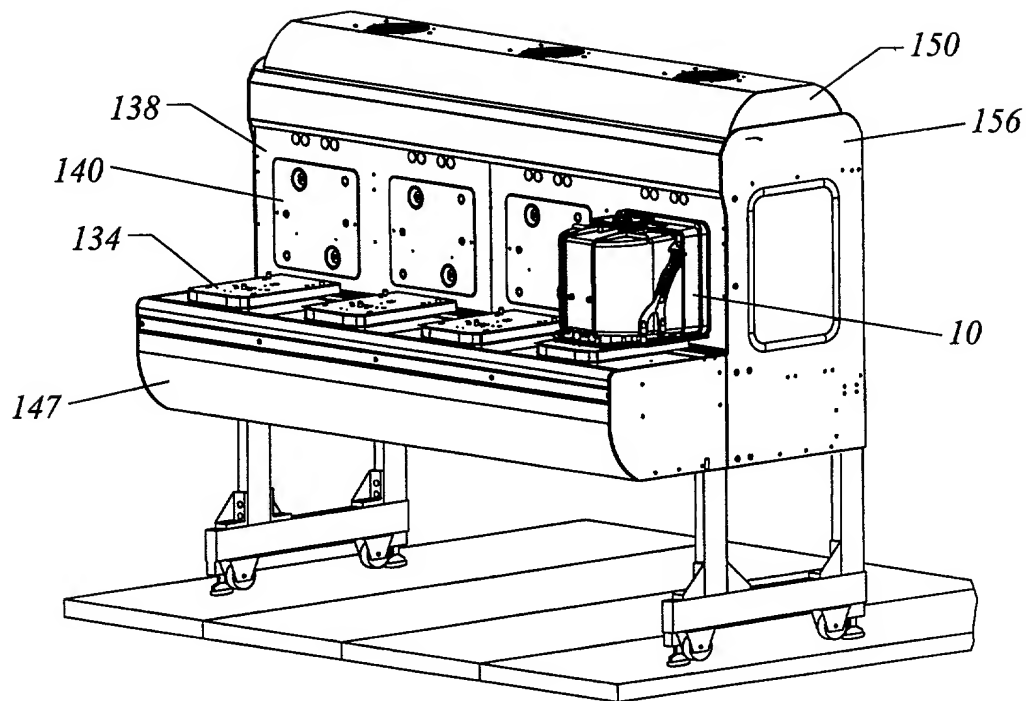


FIG. 29A

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Widespread

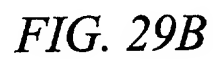
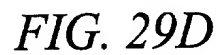


FIG. 29C



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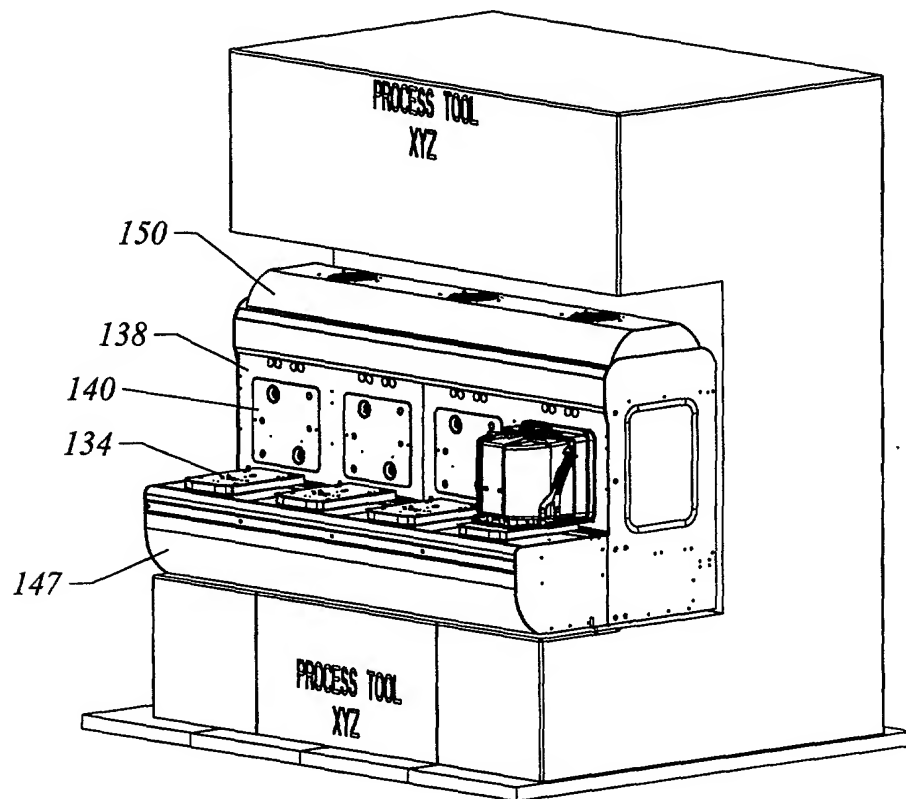


FIG. 30A

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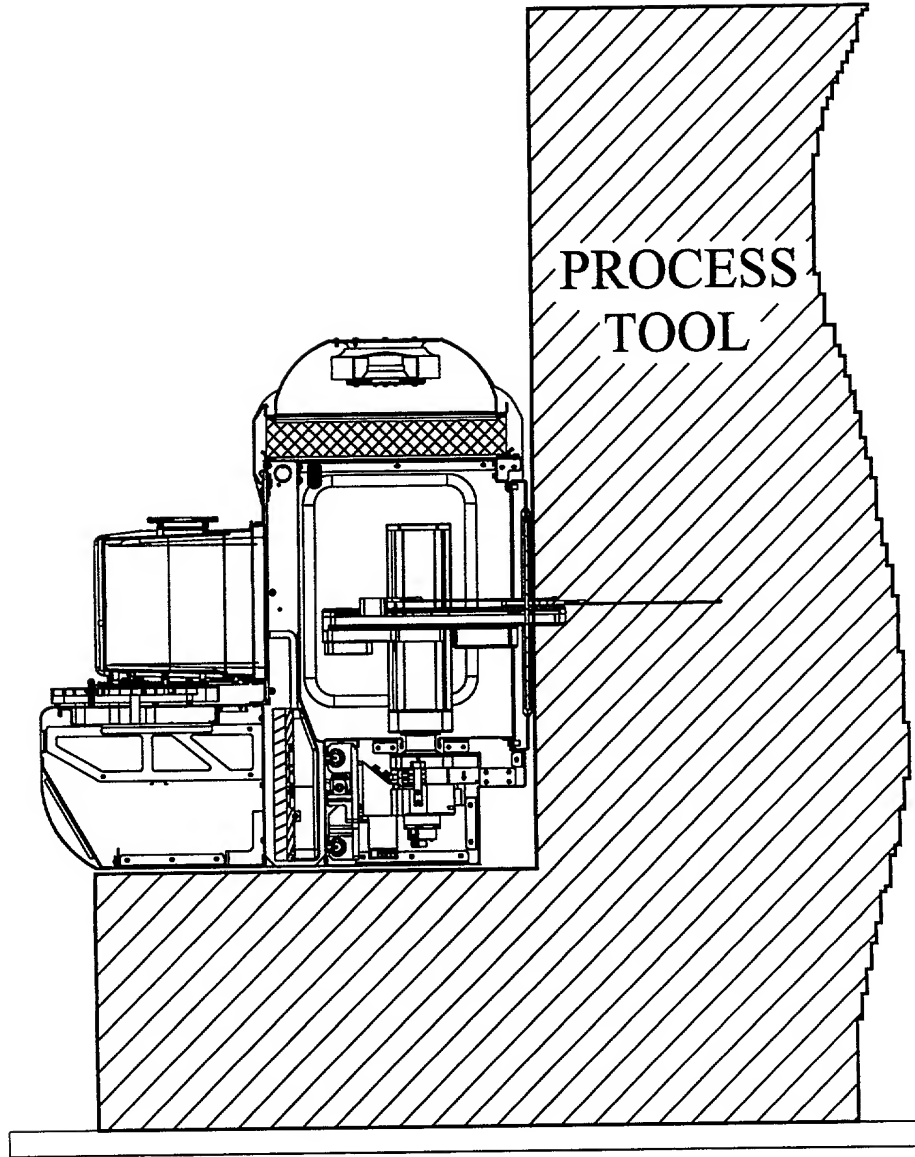
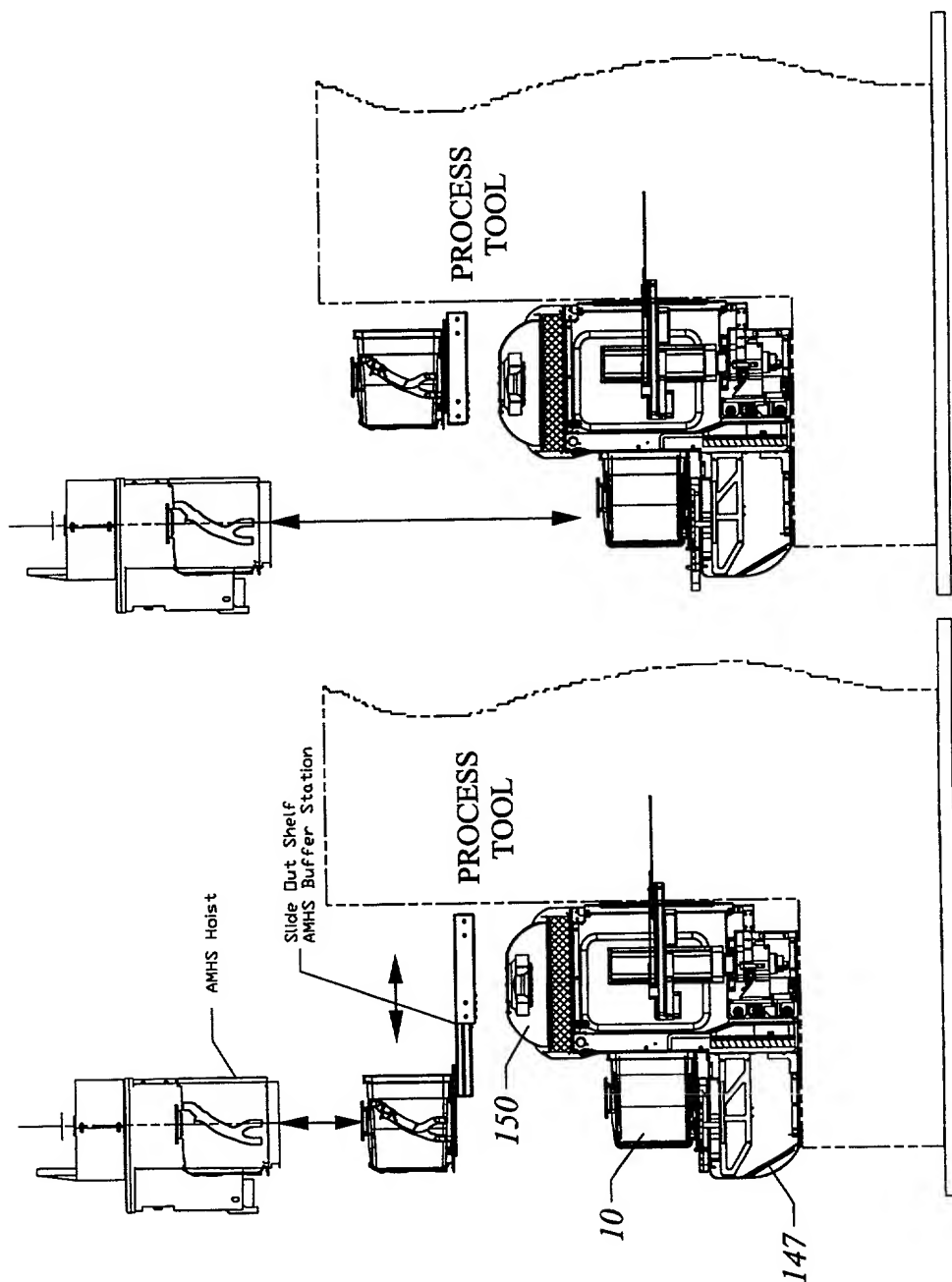


FIG. 30B

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EXERCISES



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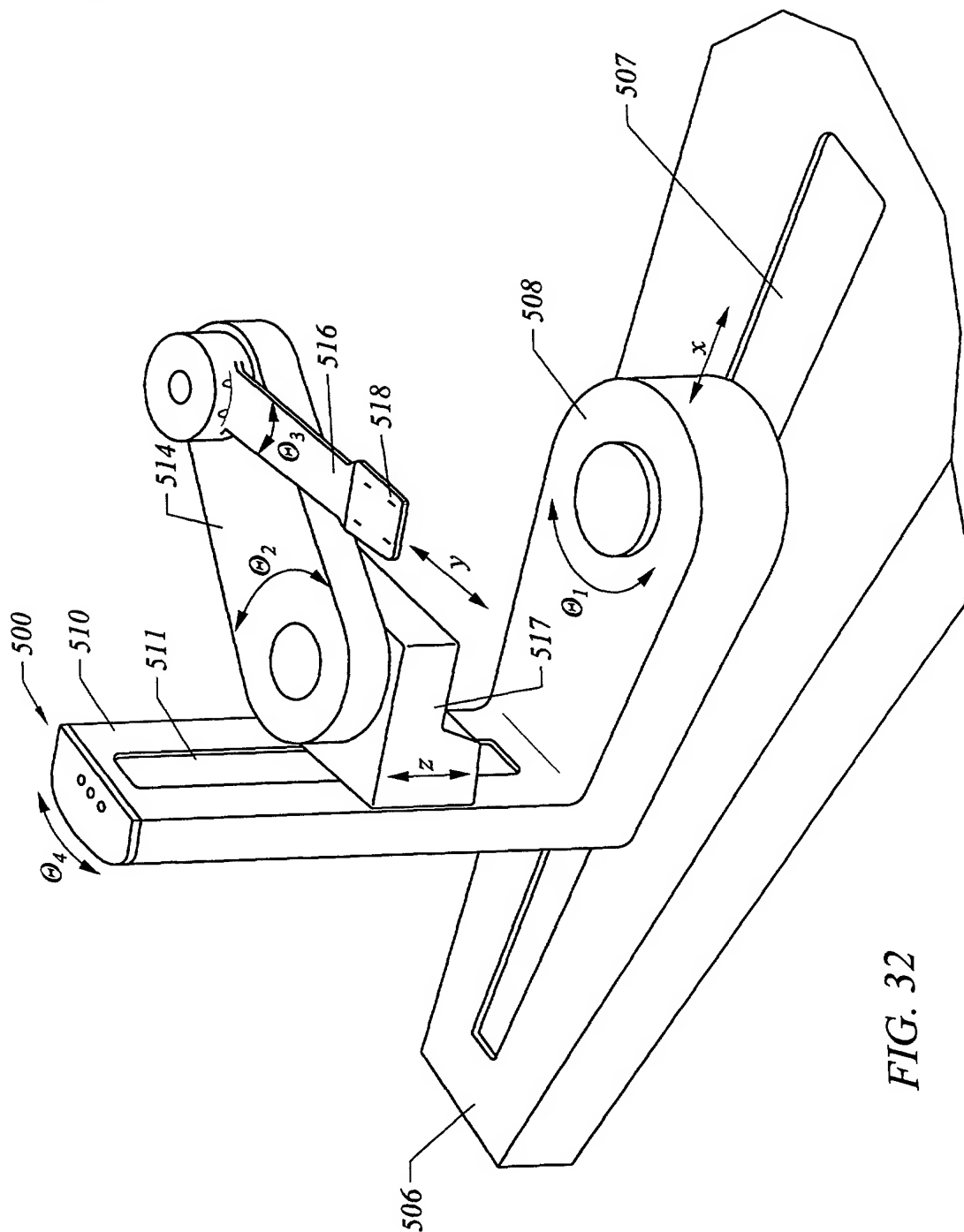


FIG. 32